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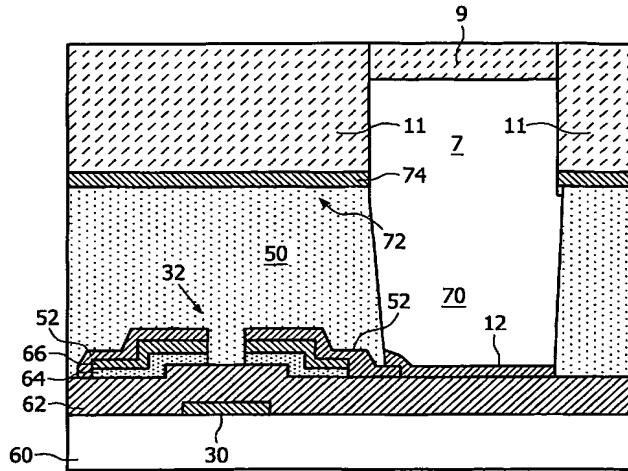
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(54) Title: ACTIVE MATRIX DISPLAY DEVICE AND METHOD OF PRODUCING THE SAME



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(57) Abstract: An active matrix display device has an optical layer (7,9,11) comprising a mixture of an electro-optical material and a polymer precursor. An upper surface of the active plate comprises an array of wells (70) such that the upper surface has higher (72) and lower regions, and the optical layer mixture is provided over the active plate. The optical layer is exposed to a stimulus for polymerizing the polymer precursor into a polymer layer constituted by a top surface (9) and by side walls (11), thereby enclosing the electro-optical material between the polymerized material and the active plate to define display pixels. Enclosed bodies of electro-optical material defining display pixels are thus provided over the lower regions. This method uses the processing of the active plate to define wells (70) which provide a height difference which can be used to provide alignment of enclosed display pixels cells. This avoids the need for an alignment mask during the deposition and exposure of the optical layer. In an embodiment of the invention, a layer (74) having affinity to the polymer precursor is provided on the higher regions in a stamping step before exposing the optical layer to the stimulus.



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